

FIG. 1A-1
FIG. 1A-2

FIG. 1A

GAAATCCCCAACAGAGCCAAAGCTCTCCATCTTAGTGGACAGGGAAGCTAGCAGCAAAACC	39 (UPPER: SEQ ID NO.: 1) 19 (LOWER: SEQ ID NO.: 4)
TTCCCTTCACCTACAAACTTCATTGCTTGGCCAAAAGAGAGTTAATTCATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTCGATTTCATGGAGGCAAC	179 59
TAAATACATTCTAGGACITTTATAAAGATCACITTTTATTATGACACAGGGTGGACAAAG	239 79
ATGGAATTATCAAGTGTCAAGTCCAAATCTATGACATCAATATTATTATACATCGAGCCCTGC	299 99
M D Y Q V S S P I Y D I N Y Y T S E P C	

FIG. 1A-1

CAAAATAATCAATGTGAAGCAAAATCGAGCGCGCTCTGCTCCGCTCTACTCTACTGTGTG 359  
 Q K I N V K Q I A A R L L P L Y S L V 119  
 TTCACTTTGGTTTGGGGCAACATGTGGTCACTCCCTCATCTGATAAATGCAAAAGG 419  
 F I F G F V G N M L V I L I L I N C K R 139  
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT 479  
 L K S M T D I Y L L N L A I S D L F F L 159  
 CTTACTGTCCCTTCTGGGCTCACTATGCTGCGGCCAGTGGACCTTTGGAAATACAATG 539  
 L T V P F W A H Y A A A Q W D F G N T M 179  
 TGTCAACTCTTTGACAGGGCTCTATTTTATAGGCTTCTCTCTGGAATCTTCTCATCATC 599  
 C Q L L T G L Y F I G F F S G I F I I 199  
 CTCCTGACAAATCGATAGGTACCTGGCTGTCTGCTCCATGCTGTGTTTGTCTTTAAAGCCAGG 659  
 L L T I D R Y L A V V H A V F A L K A R 219  
 ACGGTCACTTTGGGTGTGACAAGTGTGATCACTTGGGTGGTGGTGTGTGTGCGTCT 719  
 T V T F G V V T S V I T W V V A V F A S 239  
 CTCCTCCAGGAATCACTTTACAGATCTCAAAAAGAGGTCTTATTACACCTGCAGCTCT 779  
 L P G I I F T R S Q K E G L H Y T C S S 259  
 CATTTTCCATACA  
 H F P Y

FIG. 1A-2

FIG. 1B-1
FIG. 1B-2

FIG. 1B

GAAATCCCCCACAGAGCCAAGCTCTCCATCTAGTGACAGGGAAGCTAGCAGCAACC	59 (UPPER: SEQ ID NO.: 2)
	19 (LOWER: SEQ ID NO.: 5)
TTCCCTTCACTACAAACTTCATTGCTTGCCCAAAAGAGAGCTTAATTCATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAAACAGTTTGCATTATGGAGGCAAC	179
	59
TAAATACATTCTAGGACTTTTATAAAGATCACTTTTATTATGCACAGGTGGAACAAG	239
	79
ATGGATTATCAAGTGTCAGTCCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99

FIG. 1B-1

CAAAAATCAATGTGAGCAAAATCGAGCGCGCTCCTCGCTCGCTTACTACTCTGGT 359  
 Q K I N V K Q I A A R L L P P L Y S L V 119  
 TTCATCTTTGGTTTGGGGCAACATGCTGGTCACTCCTCATCTCTGATTAACATGCAAAAGG 419  
 F I F G F V G N M L V I L I L I N C K R 139  
 CTGAAGAGCATGACTGACATCTTACCTGCTCAACCTGGCCATCTGTACCTGTTTTCTCTT 479  
 L K S M T D I Y L L N L A I S D L F F L 159  
 CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAATACAATG 539  
 L T V P F W A H Y A A A Q W D F G N T M 179  
 TGTCAACTCTTGACAGGGCTCTATTATTATAGGCTTCTCTGGAATCTTCTTCATCATC 599  
 C Q L L T G L Y F I G F F S G I F F I I 199  
 CTCTGACAATCGATAGGTACTGGCTGTGCTCCATGCTGTGTTGCTTTAAAGCCAGG 659  
 L L T I D R Y L A V V H A V F A L K A R 219  
 ACGGTCACTTTGGGGTGTGACAAGTGTGATCACTTGGTGGTGGCTGTGTTGCTCT 719  
 T V T F G V V T S V I T W V V A V F A S 239  
 CTCCTCAGGAATCATCTTTACCAGATCTCAAAAGAAGTCTTCATTACACCTGCAGCTCT 779  
 L P G I I F T R S Q K E G L H Y T C S S 259  
 CATTTCCATACAGTCAGTATCAATCTCTGGAAGAATTTCCAGACATTAAGATPAGTCATC 839  
 H F P Y S Q Y Q F W K N F Q T L K I V I 279

FIG. 1B-2

TTGGGGCTGGTCTGCGGCTGTTGTCAATGTCATCTGCTACTCGGAACTCTAAAACT 899  
 L G L V L P L L V M V I C Y S G I L K T 299  
 CTCCTTCGGTGCGAATGAGAAGAGGCACAGGGCTGTGAGCTTAATCTTCACCATC 959  
 L L R C R N E K K R H R A V R L I F T I 319  
 ATGATTGTTATTTCTCTCTGGGCTCCCTACAACATTGTCTCTCTGAAACACCTTC 1019  
 M I V Y F L F W A P Y N I V L L L N T F 339  
 CAGGAATCTTTGGCCTGAATTAATTGCAGTAGCTCTAACAGTTGGACCAAGCTATGCAG 1079  
 Q E F F G L N N C S S N R L D Q A M Q 359  
 GTGACAGAGACTCTTGGGATGACGCACCTGCTGCATCAACCCCATCATCTATGCTTTGTC 1139  
 V T E T L G M T H C C I N P I I Y A F V 379  
 GGGAGAGACTTCAGAAACTACTCTTAGTCTTCTTCCAAAGCACATTGCCAAACGCTTC 1199  
 G E K F R N Y L L V F F Q K H I A K R F 399  
 TGCAAATGCTGTCTATTTCCAGCAAGAGGCTCCCGAGCGAGCAGCTCAGTTTACACC 1259  
 C K C C S I F Q Q E A P E R A S S V Y T 419  
 CGATCCACTGGGAGCAGGAATATCTGTGGGCTTGTGACACGGACTCAAGTGGGCTGGT 1319  
 R S T G E Q E I S V G L \* 439  
 GACCCAGTCAGAGTTGNCACATGGCTTAGTTTTCAATACACAGCCTGGGCTGGGGGTGGG 1379  
 459  
 TTGGNNGAGTCTTTTTTAAAGGAAGTTACTGTATTAGAGGGTCTAAGATTTCATCCATT 1439  
 479  
 TATTGGCATCTCTTTAAAGTAGATTAGATCCGAATTC

FIG. 1D-1
FIG. 1D-2

FIG. 1D

GAAATCCCCAACAGAGCCAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAAACC 59 (UPPER: SEQ ID NO. 3)  
19 (LOWER: SEQ ID NO. 6)

TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAA TTCAATGTAGACAT 119  
39

CTATGTAGGCAATTAAAACCTATTGTATATAAACAGTTTGCATTTCATGGAGGCAAC 179  
59

TAAATACATCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGGAAACAG 239  
79

ATGGATTATCAAGTGTCAGTCCNATCTATGACATCAATTATTATACATCGGAGCCCTGC 299  
M D Y Q V S S P I Y D I N Y Y T S E P C 99

FIG. 1D-1

CAAAATCAATGTGAAGCAANTCGAGCCCGCTCTCGCTCCGCTCTACTCACTGGTG 359  
 Q K I N V K Q I A A R L L P P L Y S L V 119  
 TTCACTTTGGTTTGTGGCAACATGCTGGTCACTCTCATCTGTATTAAGTCAAAAGG 419  
 F I F G F V G N M L V I L I L I N C K R 139  
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCCTT 479  
 L K S M T D I Y L L N L A I S D L F F L 159  
 CTTACTGTCCCTTCTGGCTCACTATGCTGCCGCCAGTGGACCTTGGAAATACAATG 539  
 L T V P F W A H Y A A A Q W D F G N T M 179  
 TCTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTCTCGAATCTTCTTCATCATC 599  
 C Q L L T G L Y F I G F F S G I F I I 199  
 CTCCTGACATCGATAGTACCTGGCTGTCGTCCATGCTGTGTTTGTCTTAAAGCCAGG 659  
 L L T I D R Y L A V V H A V F A L K A R 219  
 ACGGTACACTTTGGGGTGGTGACAAGTGTGATCACTTGGTGGTGGCTGTGTTGCGTCT 719  
 T V T F G V V T S V I T W V V A V F A S 239  
 CTTCCAGGAATCATCTTTACCATCTCAAAAAGAGTCTTCATTACACCTGCAGCTCT 779  
 L P G I I F T R S Q K E G L H Y T C S S 259  
 CATTTTCCATACATTAAAGATAGTCACTTGGGGTGGTCTCGCGGCTGCTGTGTCATGGT 839  
 H F P Y I K D S H L G A G P A A A C H G 279

FIG. 1D-2

CATCTGCTACTCGGGAATCCTAAAACTCTGCTCGGTGCGAAATGAGAAGAAGGGCA 899  
 H L L G N P K N S A S V S K \* 299  
 CAGGGCTGTGAGGCTTATCTTCACCATCATGATGTGTTATTCTCTTCTGSGCTCCCTA 959  
 319  
 CAACATTGTCTCTCTCTGAAACACCTTCCAGGAATTCTTTGGCCGTGAATAATTGCAGTAG 1019  
 339  
 CTCTAA CAGGTTTGGACCAAGCTATG CAGGTGACAGAGACTCTTTGGGATGACGCCACTGCTG 1079  
 359  
 CATCAACCCCATCATCTATGCCCTTTGTGCGGGAGAGTTCAGAAACTACCTCTTAGTCTT 1139  
 379  
 CTTCCAAAAGCACATTGCCAAACGCTTCTGCAAAATGCTGTCTATTATTTCCAGCAAGAGGC 1199  
 399  
 TCCCGAGCGAGCAAGCTCAGTTTACACCGGATCCACTGGGGGAGCAGGAATATCTGTGGG 1259  
 419  
 CTTGTGACGGACTCAACTGGGCTGTGACCCAGTCAGAGTTGTCACATGGCTTAGTT 1319  
 439  
 TTCATACACAGCCTGGGCTGGGGTNGGTTGGNNGAGTCTTTTTTAAAGGAAGTTACT 1379  
 459  
 GTTATAGAGGCTTAGATTCAATCCATTATTTTGGCATCTGTTTAAAGTAGATTAGATCC 1439  
 479

GAATTC

FIG. 1D-3



FIG. 2A
FIG. 2B

FIG. 2

		I	II	
CCR5	1 MDQVSSPIVDINVTSEPCQINVKQIMARLLPPLYSLVFTFGVGNMLILINCKRLKSWTDIYLLMLAISDLFFLLT			83
hcc-R2b	6 MESTSRSRRTINNESGEVTFDFYDVGAPCHDFDKQIGALLPPLYSLVFTFGVGNMLWLINCKRLKCTDIYLLMLAISDLFFLLT			95
hcc-R3	MTTSLDITVEITFGTSSYDDVGILLCEKADTRALMAQCFPPPLYSLVFTVGLIGNVVMMLIKYRRLRIMTNAYLLMLAISDLFFLLT			87
hcc-R1	METPNTTDEDYDTTTEFDYGDATPCQKINERAFGRQLLPPLYSLVFVFIGVGNILVWLIVQYKRLKNTSIYLLMLAISDLFFLLT			87
hcc-R4	NNPTDIADTTIDESIYSNLYESIPKPTQTEGKAFGEFLPPLYSLVFVEGLIGNSVWLIFKPKRRLRIMTNAYLLMLAISDLFFVFS			92

		III	IV	
CCR5	VPEWHAHYAQQWDFGNVQMLTGLVIGTFSGIFPIILLIDRYLAIVHAVFAIKARTVTFGVTSVITWVAVFASLPGIIFTRSKQKGLH			177
hcc-R2b	LPLWAHSAANWVEGNWCKMETGLYHIGTSGIFPIILLIDRYLAIVHAVFAIKARTVTFGVTSVITWLVAVFASVPGIIFTKQKEDSV			189
hcc-R3	LPEWIEYVRGHWVFGKACNLISSPHTGLISEFFPIILLIDRYLAIVHAVFAIKARTVTFGVTSVITWGLVAVLALPEFIIVETEELFEE			182
hcc-R1	LPEWLDKLDKDWVFGKACNLISSPHTGLISEFFPIILLIDRYLAIVHAVFAIKARTVTFGVTSIILWALAILASVGLYFSGTKQWETH			182
hcc-R4	LPEWCGYAQQWDFGLGICWISWMLVGFVSGIFVIMLSIDRYLAIVHAVESLSEKARTLVGVTSLATWSVAVFASLPGIIFSTCTYTERNH			186

FIG. 2A

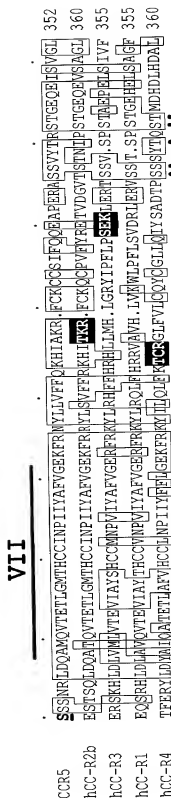
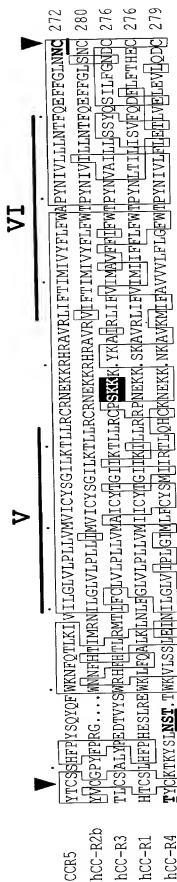


FIG. 2B

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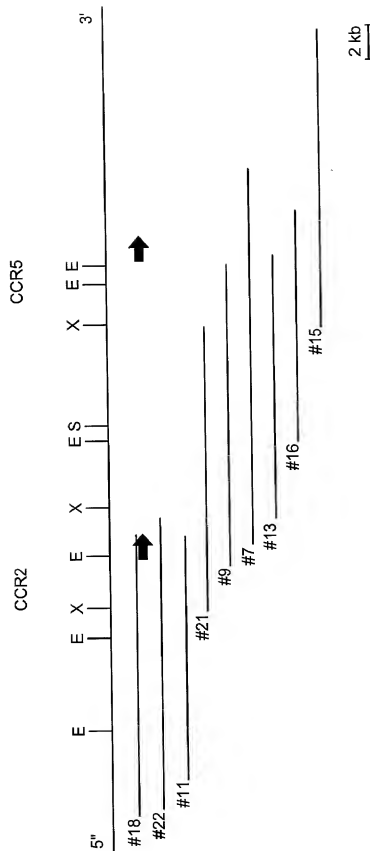


FIG. 3

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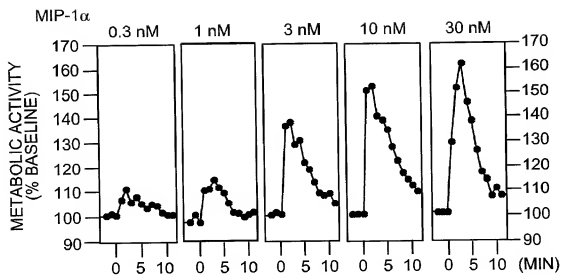


FIG. 4A

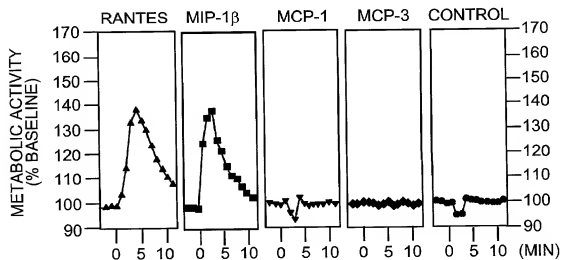


FIG. 4B

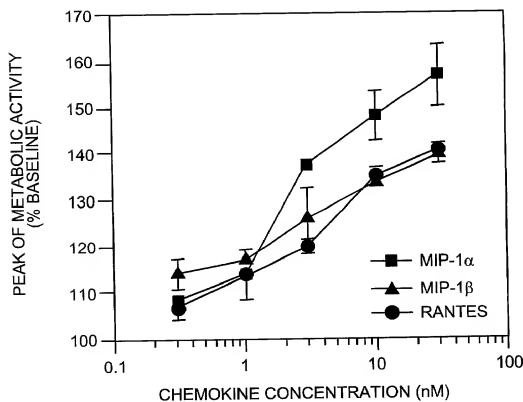


FIG. 4C

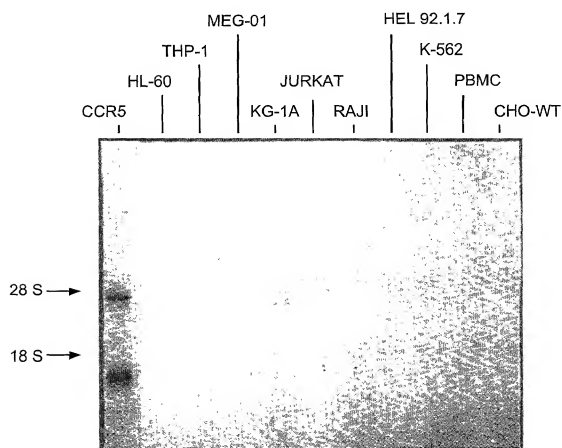


FIG. 5



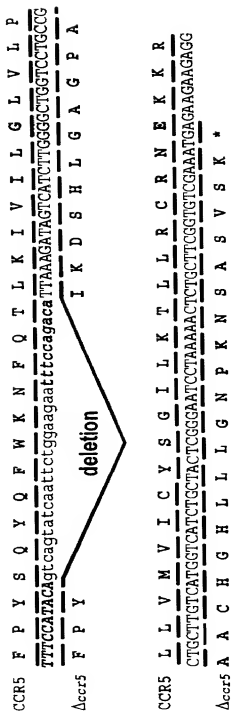


FIG. 6B



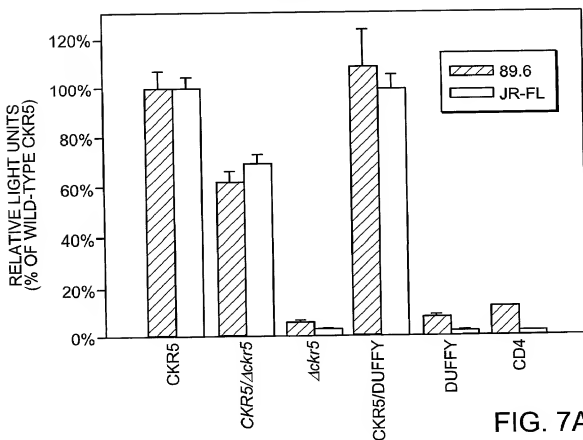


FIG. 7A

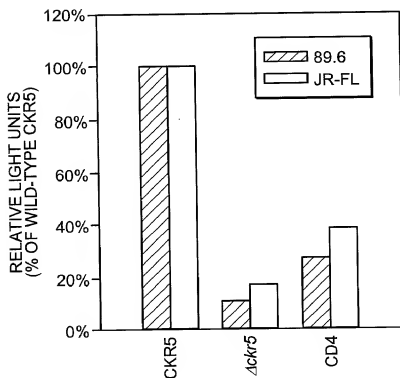


FIG. 7B

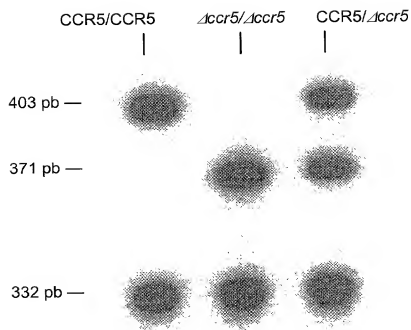


FIG. 8

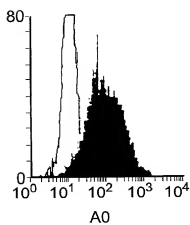


FIG. 9A

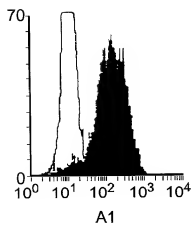


FIG. 9B

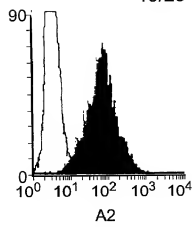


FIG. 9C

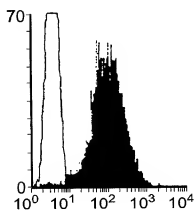


FIG. 9D

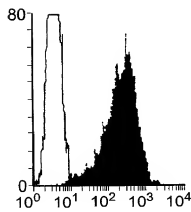


FIG. 9E

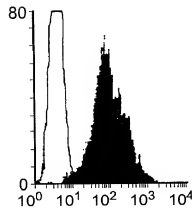


FIG. 9F

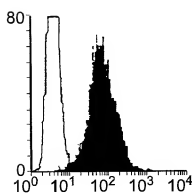


FIG. 9G

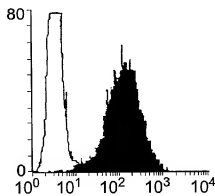


FIG. 9H

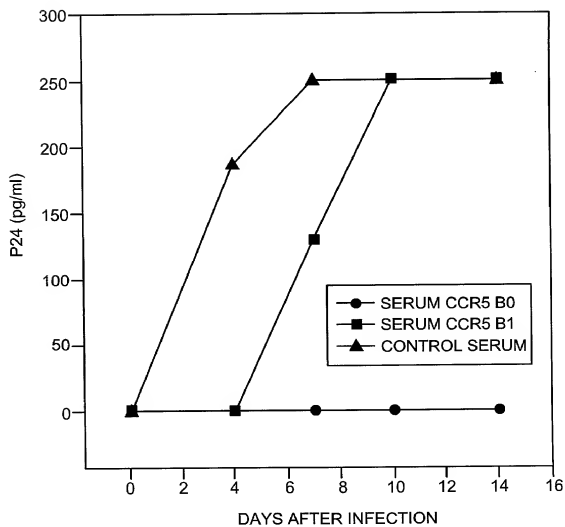


FIG. 10